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4. (Amended) The antimicrobial polymer blend as claimed in claim 1, characterized in that the monomer used of the formula I is 2-tert-butylaminoethyl methacrylate, 2-diethylaminoethyl methacrylate, 2-dimethylaminomethyl methacrylate, 2-tert-butylaminoethyl acrylate, 3-dimethylaminopropyl acrylate, 2-diethylaminoethyl acrylate, 2-dimethylaminoethyl acrylate, N-3-dimethylaminopropylmethacrylamide, N-3-diethylaminopropylmethacrylamide, N-3-dimethylaminopropylacrylamide, or N-3-diethylaminopropylacrylamide.

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5. (Amended) The antimicrobial polymer blend as claimed in Claim 1, characterized in that the other polymer used comprises polyurethanes, polyolefins, polyethylene, polypropylene, poly-siloxanes, polystyrene, polyacrylates, polymethylmethacrylate, PVC, polyamides or polyterephthalates.

6. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 for producing items for medical technology.

7. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 for producing hygiene items.

8. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 in surface coatings, protective paints, or other coatings.

9. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 in biocidal formulations.

10. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 for producing films, tarpaulins, fabrics, or fibers.

11. (Amended) The use of the antimicrobial polymer blends as claimed in Claim 1 in formulations for ointments or pastes.

12. (Amended) A process for sterilizing cooling water streams, which comprises